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U.S.S.N.: 09/226,766

161. The method of claim 157, wherein said egg cytoplasm comprises an activation activity of 70% or greater of peak activation.

162. A method for reprogramming a somatic cell nucleus for transplantation into an egg, comprising

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contacting said nucleus with an cytostatic factor-containing cytoplasm of a cell in meiotic metaphase II prior to activating said nucleus;

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transplanting said nucleus into an enucleated recipient egg;
wherein said nucleus is reprogrammed to direct development of a cloned organism after transplantation into said recipient egg.

163. A method for *in vitro* activation of a non-dividing nucleus, comprising the steps of:

- (a) providing an isolated somatic cell nucleus;
- (b) pretreating said isolated nucleus with a cytostatic-factor containing cytoplasm to yield a pretreated nucleus; and
- (c) contacting said pretreated nucleus with an activating egg cytoplasm;
wherein said pretreated nucleus is activated to undergo DNA replication.

REMARKS

Claims 157-163 were added, claims 87-141 having been canceled by the present amendment. Claims 157-163 are supported by disclosure at page 3, lines 20-27; page 6, lines 13-14; page 8, lines 6-11; page 10, lines 35-36; page 25, lines 21-32; page 34, lines 15-16; page 33-34; page 38, lines 27-30, and page 8, lines 25-26, of the specification. Claim 162 is further supported by disclosure at page 58, line 19, to page 60, line 26, of the specification.

No new matter has been added by this amendment.

The Examiner has acknowledged that the claims are free of the prior art. The only issues of patentability are indefiniteness and enablement.